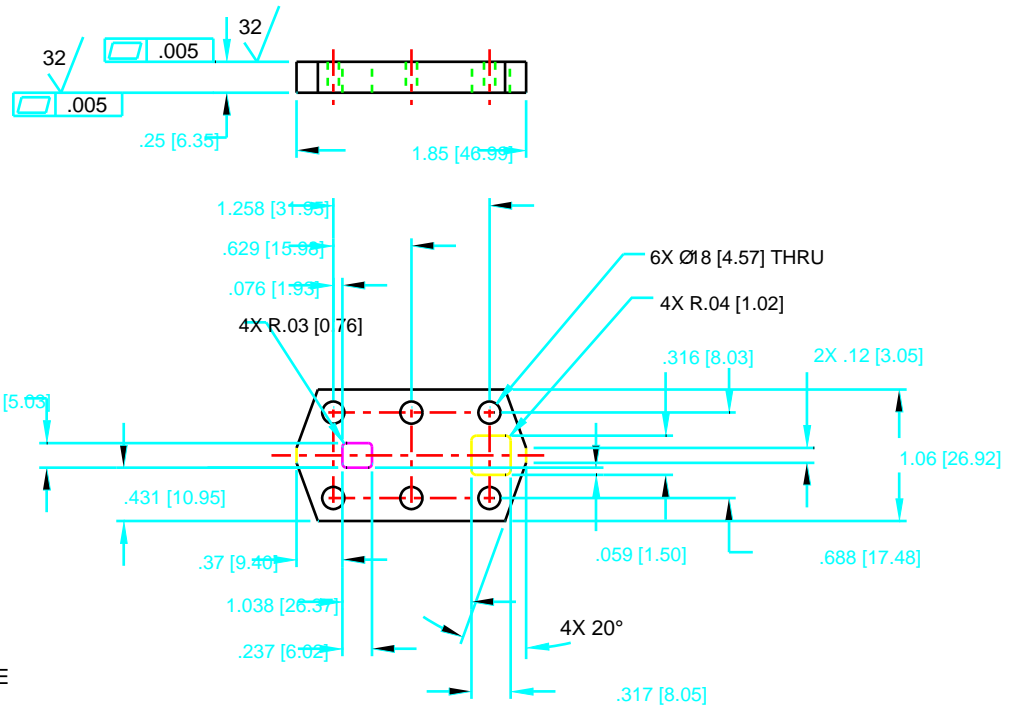


NOTES:

1. TUNGSTEN ALLOY OF 95% TUNGSTEN OR MORE WITH REMAINDER OF NICKEL AND IRON PER MIL-T-21014D CLASS 3, UHV GRADE
2. THIS IS A ULTRA- HIGH VACUUM COMPONENT (UHV)
3. WHEN MACHINING VACUUM PARTS, USE OF SILICONE AND SULPHUR-BASED CUTTING FLUIDS IS PROHIBITED. USE ONE OF THE FOLLOWING:
 - A) CIMCOOL 5 STAR 49
 - B) TRIM SOL
4. ALL SURFACES MUST BE MACHINED FOR CLEAN UP
5. FINISHING: WHEN MACHINING VACUUM PARTS USE OF ABRASIVE PAPER OR SANDING DISCS, BUFFING OR POLISHING COMPOUNDS, OR RESIN-BONDED GRINDING WHEELS IS PROHIBITED
6. CLEANING: THE COMPONENT MUST BE CLEANED SUCH THAT A UHV PRESSURE OF 1×10^{-9} TORR CAN BE ACHIEVED
7. HANDLING: THE COMPONENTS SHALL BE HANDLED WITH WHITE SILK GLOVES AND WRAPPED WITH ALUMINUM FOIL TYPE DRY ANNEAL AND UNDER CLEAN ROOM CONDITIONS
8. DIMENSIONS IN [] ARE MILLIMETERS AND FOR REF. ONLY

REF. SOURCE

MITEK METALS, INC.
1340 NORTH SENATE AVE.
INDIANAPOLIS, IN 46202
TEL: 1-317-637-3574
FAX: 1-317-633-7224



ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		THIS DRAWING IS THE PROPERTY OF		
TOLERANCES		ARGONNE NATIONAL LABORATORY		
DECIMALS	ANGULAR	M7410103-00		
.X - .1 [2.5]	- 0°30'	DRAWN BY	DATE	CHIEF DESIGN ENGINEER
.XX - .01 [0.25]		MUSCIA	11/18/99	D. SHU
.XXX - .005 [0.13]		CHECKED BY	DATE	GP LEADER
		J. CHANG	5/13/99	T.M. KUZAY
SURFACE ROUGHNESS		DESIGNER	DATE	PROJECT MGR.
125		CHANG/MUSCIA	11/18/98	
REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX.		RESPONSIBLE ENGINEER	DATE	APPROVED/RELEASED
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1		J. CHANG	5/13/99	
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5		MATERIAL		
		SEE NOTE #1		
		SCALE	1:1	SIZE
		SHEET	1 of 1	B
		DRAWING NUMBER		
		M7-410103-00		

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
REVISIONS				

DO NOT SCALE DRAWING

ADVANCED PHOTON SOURCE
M7-41 DUEL BEAM
FIXED MASK
FOR 4-ID-A
RADIATION GUARD